	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING										AMENI	FO DED REPOR	RM 3	
APPLICATION FOR PERMIT TO DRILL									1. WELL NAME and NUMBER Three Rivers 36-26T-720					
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A WEL	L DEEPEN	I WELL	)			3. FIELD OR WILDCA	T THREE	RIVERS		
4. TYPE O	F WELL	0			hane Well: NO					5. UNIT or COMMUNI	TIZATION	AGREEM	ENT NAM	IE .
6. NAME C	F OPERATOR			ESOURCES						7. OPERATOR PHONE	303 64	5-0900		
8. ADDRES	SS OF OPERATO									9. OPERATOR E-MAI	L			
	AL LEASE NUM	BER	rness Way Sout		iglewood, CO, 801					12. SURFACE OWNER		etroleum.c	om	
(FEDERAL	., INDIAN, OR S	TATE) ML50510		FE	DERAL NE	DIAN 🔵	STATE (I	) F	EE 🔵	FEDERAL IN	DIAN \Bigg	STATE	F	EE 🔵
13. NAME	OF SURFACE	OWNER (if box 12	= 'fee')							14. SURFACE OWNE	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			NTEND TO COMM TIPLE FORMATIO S (Submit C	NS	RODUCTION		10	19. SLANT VERTICAL DI	RECTION	AL 📵 H	IORIZONT	AL 🔵
20. LOCA	TION OF WELL			FOOTAG	ES	QTR	R-QTR	S	ECTION	TOWNSHIP	R/	ANGE	МЕ	RIDIAN
LOCATIO	N AT SURFACE		14	72 FSL 7	14 FWL	NW	vsw	4	36	7.0 S	20	0.0 E		S
Top of U	ppermost Prod	ucing Zone	130	00 FSL 19	80 FWL	SE	SW		36	7.0 S	20	0.0 E		S
At Total	Depth		130	00 FSL 19	80 FWL	SE	:sw\		36	7.0 S	20	0.0 E		S
21. COUN	TY	UINTAH		22. D	ISTANCE TO NEA	REST LEA		eet)		23. NUMBER OF ACRES IN DRILLING UNIT 40				
					ISTANCE TO NEA		eted)	POOL		26. PROPOSED DEPT		TVD: 715	0	
27. ELEV	TION - GROUN	D LEVEL		28. B	OND NUMBER					29. SOURCE OF DRIL WATER RIGHTS APPR			PPLICAB	LE
		4902				022046					49-2			
Chrima	Hole Size	Casina Sina	Lanath	Weight	Hole, Casing Grade & Th		Max Mu		on	Cement		Sacks	Yield	Waimb4
String	11	Casing Size 8.625	0 - 1000	24.0	J-55 LT		8.8		Prem	nium Lite High Stre	nath	80	2.97	Weight 11.5
- Juni		0.020	0 ,000	21.0	0 00 210	-	0.0		1 1011	Class G		115	1.16	15.8
Prod	7.875	5.5	0 - 7402	17.0	J-55 LT	&C	10.0	0		OTHER		225	3.54	11.0
										OTHER 450 1.			1.35	14.0
					А	TTACHM	MENTS							
	VER	IFY THE FOLLO	WING ARE AT	TACHED	IN ACCORDAN	ICE WITH	H THE UTA	AH OIL	. AND GAS	CONSERVATION 6	SENERA	L RULES		
WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER							сом	PLETE	DRILLING PL	.AN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)							FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)							<b>г</b> торо	GRAPI	HICAL MAP					
NAME Jenna Anderson TITLE Permitting Assistant						nt			PHONE 303	3 645-9804				
SIGNATURE DATE 07/09/2014									EMAIL jand	erson@ultrapetroleum	n.com			
	BER ASSIGNED 047545800	0000		APPRO	VAL				Book	Refill				
							Permit Manager							

#### ULTRA RESOURCES, INC.

#### MASTER 8 - POINT DRILLING PROGRAM

Slim Hole Design 8 5/8" Surface & 5 ½" Production Casing Design

DATED: 07-09-14

Directional Wells located on Ultra leases in Three Rivers Project:

**Three Rivers 36-26T-720** 

SHL: Sec 36 (NWSW) T7S R20E

Uintah, Utah

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (CFR 43, Part 3160) and the approved Application for Permit to Drill. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations.

Three Rivers 36-26T-720 Page **2** of **5** 

#### 1. Formation Tops

The estimated tops of important geologic markers are as follows:

Formation Top	Top (TVD)	Comments
Uinta	Surface	
BMSW	2,661' MD / 2,600' TVD	
Green River	3,220' MD / 3,100' TVD	
Mahogany	4,635' MD / 4,390' TVD	
Garden Gulch	5,302' MD / 5,050' TVD	Oil & Associated Gas
Lower Green River*	5,427' MD / 5,175' TVD	Oil & Associated Gas
Wasatch	7,202' MD / 6,950' TVD	Oil & Associated Gas
TD	7.402' MD / 7.150' TVD	

#### Asterisks (\*) denotes target pay intervals

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished to the BLM. Oil and gas shows will be adequately tested for commercial possibilities, reported and protected by casing and cement.

#### 2. BOP Equipment

- A) The BOPE shall be closed whenever the well is unattended The Bureau of Land Management will be notified 24 hours prior to all BOPE pressure tests. The State of Utah, Division of Oil, Gas and Mining will be notified 24 hours prior to all BOPE pressure tests.
- **B**) The BOPE shall be closed whenever the well is unattended.
- C) As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, Part A:
  - 1) All BOPE connections subjected to well pressure will be flanged, welded, or clamped.
  - 2) Choke Manifold
  - 3) Tee blocks or targeted 'T's will be used and anchored to prevent slip and reduce vibration.
  - 4) Two adjustable chokes will be used in the choke manifold.
  - 5) All valves (except chokes) in kill line choke manifold and choke line will not restrict the
  - 6) Pressure gauges in the well control system will be designed for drilling fluid.

#### **D**) BOPE Testing:

- 1) BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, or after repairs.
- 2) All BOP tests will be performed with a test plug in place.
- 3) BOP will be tested to full stack working pressure and annular preventer to 50% stack working pressure.

 INTERVAL
 BOP

 0 - 1,000' MD / 1,000' TVD
 11" I

 1,000' MD / 1,000' TVD - 7,402' MD / 7,150' TVD
 3,000

 Dive

# BOP EQUIPMENT 11" Diverter with Rotating Head 3,000# Ram Double BOP & Annular with

Diverter & Rotating Head

NOTE: Drilling spool to accommodate choke and kill lines.

#### 3. Casing and Float Equipment Program

#### **CASING:**

Directional Well	Hole Size	OD	Depth MD/TVD	Wt.	Grade & Connection	Cond.
Surface	11"	8 5/8"	1,000' MD / 1,000' TVD	24.0 ppf	J-55, LTC	New
Production	7 7/8"	5 ½"	7,402' MD / 7,150' TVD	17.0 ppf	J-55, LTC	New

Three Rivers 36-26T-720 Page **3** of **5** 

#### CASING SPECIFICATIONS:

Directional Well	Casing OD	Casing ID / Drift ID	Collapse (psi)	Int. Yield (psi)	Ten. Yield (lb)	Jt. Strength (lb)
Surface	8 5/8"	8.097" / 7.972"	1,370	2,950	381,000	244,000
Production	5 ½"	4.492" / 4.767"	4,910	5,320'	273,000	229,000

FLOAT EQUIPMENT:

SURFACE (8 5/8") Float Shoe, 1 joint casing, float collar

Centralizers: 1 each 1<sup>st</sup> 4 Joints then every 4<sup>th</sup> joint to surface

PRODUCTION (5 ½") Float Shoe, 1 joint casing, float collar

Centralizers: 1 each 1<sup>st</sup> 4 Joints then every 3<sup>rd</sup> joint to 500' into surface casing

4. Cementing Programs

CONDUCTOR (13 %") Ready Mix – Cement to surface

SURFACE (8 5/8") Cement Top - Surface

Surface – 500' Lead: 80 sks, Premium Lightweight Cmt w/ additives, 11.5 ppg, 2,97 cf/sk 50%

excess

500' – 1,000' MD / 1,000' TVD± Tail: 115 sks Glass G Cement w/ additives, 15.8 ppg, 1.16 cf/sx, 50% excess

Note: The above volumes are based on a gauge-hole + 50% excess.

**PRODUCTION** (5 ½") Cement Top – 500"

500' - 4,000' TVD  $\pm$  Lead: 225 sks – Econocem Cement w/ 0.25 lbm Poly-E-Flake, 1%

Granulite TR <sup>1</sup>/<sub>4</sub>, 5 lbm Kol-Seal; 11.0 ppg; 3.54 cf/sx; 15% excess

4,000' - 7,402' MD / 7,150' TVD Tail: 450 sks, Expandacem Cement w/ 0.25 lbm Poly-E-Flake, 1 lbm

Granulite TR ¼, 2 lbm Kol-Seal; 14.0 pp; 1.349 cf/sk; 15% excess

Note: Lead Cement will be brought to 4,000' which will give a minimum of 500' above Lower Green River.

- A) For Surface casing, if cement falls or does not circulate to surface, cement will be topped off.
- **B**) Cement will not be placed down annulus with a 1" pipe unless BLM is contacted.
- C) The Bureau of Land Management will be notified 24 hours prior to running casing and cementing.
- **D**) As per 43 CFR 3160, Onshore Oil and Gas Order No.2, Drilling Operations, Part B:
  - 1) All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe (minimum of 8 hours) prior to drilling out.
  - 2) Prior to drilling out cement, casing will be pressure tested to 1500 psi. Pressure decline must not be greater than 10% (150 psi) in 30 minutes.
  - 3) Progress reports, Form 3160-5 "Sundry Notices and Reports on Wells", shall be filed with the Field Manager within 30 days after the work in completed.
  - 4) Setting of each string of casing, size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
  - 5) Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.

RECEIVED: July 09, 2014

Three Rivers 36-26T-720

Page 4 of 5

6) A pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed after drilling 5-10 feet of new hole.

#### 5. Mud Program

The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Viscosity	Fluid Loss	pН	Mud Wt. (ppg)
0 – 1,000' MD / 1,000' TVD	Water/Spud Mud	32	No Control (NC)	7.0 -8.2	<8.8
1,000' MD / 1,000' TVD - 7,402' MD / 7,150' TVD	DAP System	40 - 60	10 - 18	7.0-8.2	<10.0

- **A)** For Surface Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- **B**) The mud monitoring equipment on location will be installed by top of Green River and will be able to monitor at a minimum the pit volume totalizer (PVT), stroke counter, and flow sensor
- C) Flare line discharge will be located no less than 100 feet from the wellhead using straight or targeted 'T' and anchors.

#### 6. Evaluation Program - Testing, Logging, and Coring

- A) Cores: None anticipated.
- **B**) Testing: None anticipated.
- **C)** Directional Drilling: Directional tools will be used to locate the bottom hole per the attached directional plan +/-.
- **D)** Open Hole Logs: TD to surface casing: resistivity, neutron density, gamma ray and caliper.
- **E**) Mud Logs: None anticipated.
- **F)** Formation to TD; record and monitor gas shows and record drill times (normal mud logging duties).

#### 7. Anticipated Pressures and H.S.

- **A)** The expected bottom hole pressure is 3,500 3,650 psig. Normal pressures are anticipated from surface to approximately TD. These pressures will be controlled by a blowout preventer stack, annular BOP, choke manifold, mud/gas separator, surface equipment and drilling mud. A supply of barite to weight the mud to a balancing specific gravity, if necessary, will be on location.
- **B**) Maximum expected surface pressure will be based on the frac gradient of the casing shoe. The design of the casing assumes that the MASP will be the fracture pressure at the shoe less a column of gas.
- C) No hydrogen sulfide gas is anticipated, however if H<sub>2</sub>S is encountered, the guidelines in Onshore Oil and Gas Order No. 6 will be complied with.

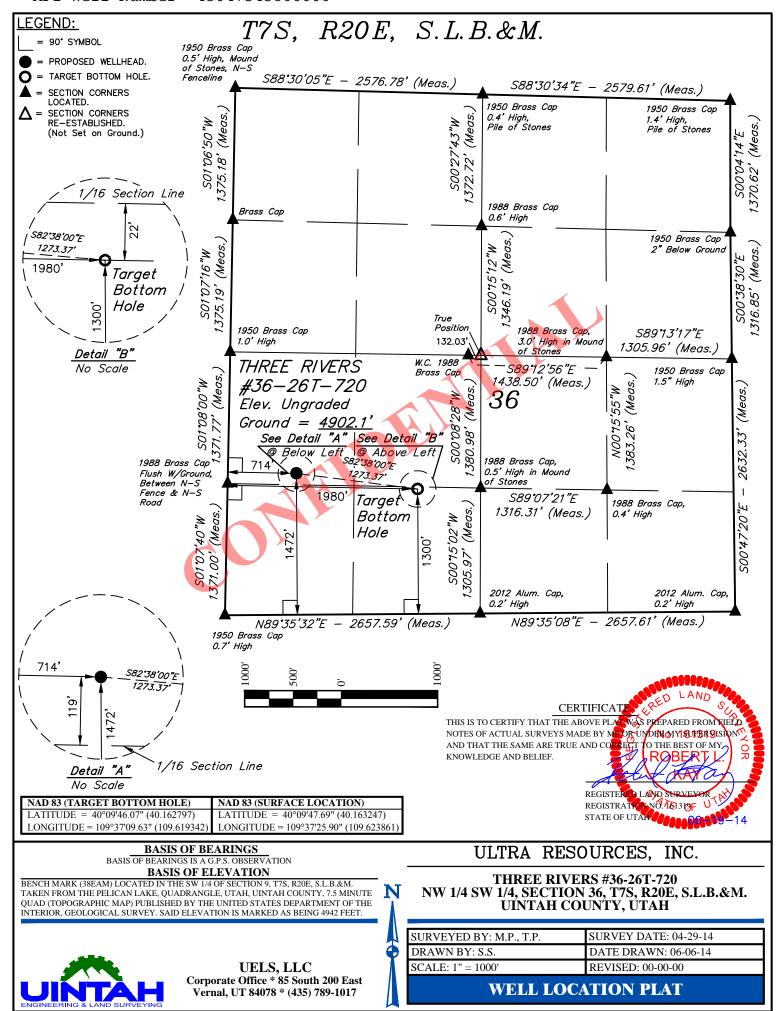
#### **8.** Other Information and Notification Requirements

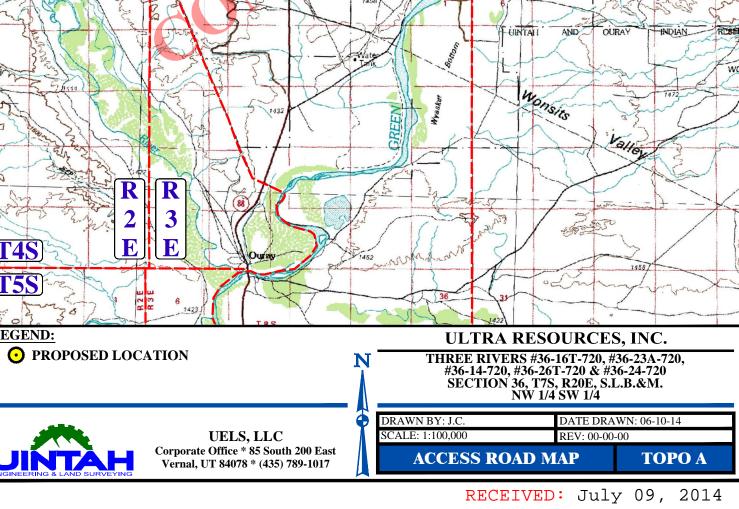
**A)** There shall be no deviation from the proposed drilling and/or workover program as approved. Any changes in operation must have prior approval from the *Utah Division of Oil, Gas and Mining*, and the BLM Vernal (when drilling on Federal leases).

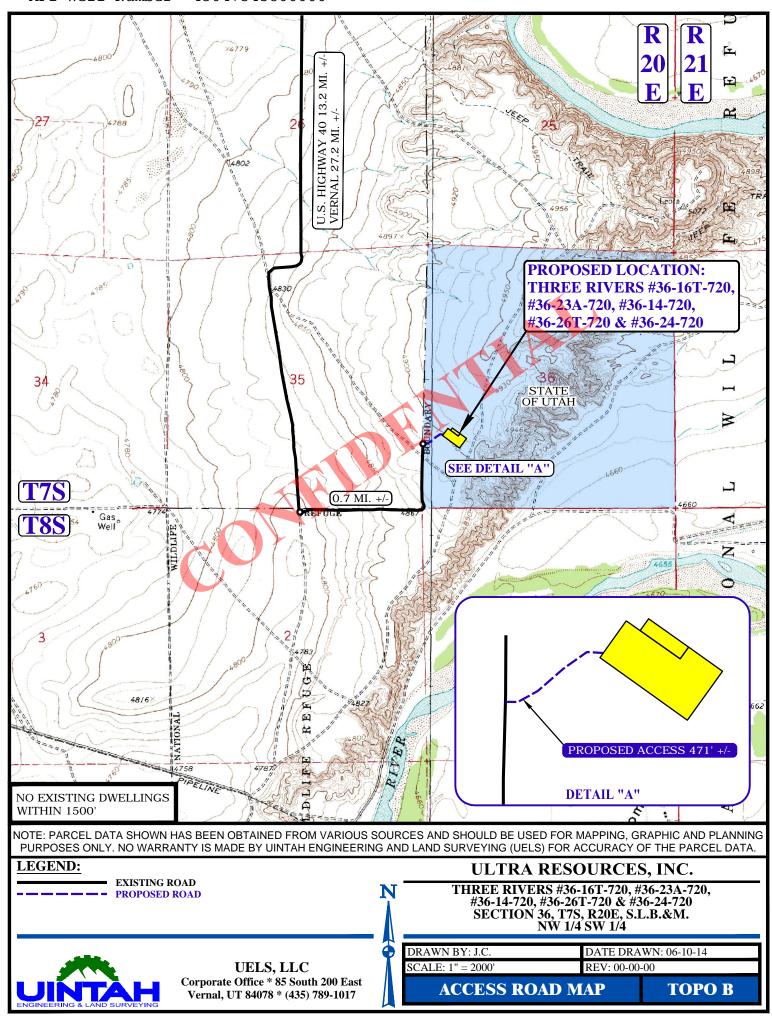
Three Rivers 36-26T-720 Page **5** of **5** 

1) Anticipated starting date will be upon approval. It is anticipated that completion operations will begin within 15 days after the well has been drilled.

- 2) It is anticipated that the drilling and completion of this well will take approximately 90 days.
- B) Notification Requirements for *Utah Division of Oil*, *Gas and Mining*:
  - Within 24 hrs. of spud (Carol Daniels at 801/538-5284)
  - 24 hrs. prior to testing BOP equipment (Dan Jarvis 801/538-5338 or 231-8956)
  - 24 hrs. prior to cementing or testing casing (Dan Jarvis)
  - Within 24 hrs. of making any emergency changes to APD (Dustin Doucet 801/538-5281 or 733-0983)
- C) Notification Requirements BLM Vernal when drilling on Federal leases as follows: (Cade T Taylor @ cctaylor@blm.gov and Blm\_ut\_vn\_opreport@blm.gov:
  - Within 24 hrs. of spud (Carol Daniels at 801/538-5284)
  - 24 hrs. prior to testing BOP equipment (Dan Jarvis 801/538-5338 or 231-8956)
  - 24 hrs. prior to cementing or testing casing (Dan Jarvis)
  - Within 24 hrs. of making any emergency changes to APD (Dustin Doucet 801/538-5281 or 733-0983)
- **D)** Any changes in the program must be approved by the *Utah Division of Oil, Gas and Mining* and or the BLM Vernal Office. "Sundry Notices and Reports on Wells" (form 3160-5) must be filed for all changes of plans. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
  - 1) Should the well be successfully completed for production, the BLM Pinedale Field Office must be notified when it is placed in a producing status. The notification shall provide, as a minimum, the following information items:
    - . Operator name, address, and telephone number.
    - . Well name and number.
    - Well location (1/4 1/4, Section, Township, Range and P.M.)
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - . The Federal or Indian lease prefix and number on which the well is located. As appropriate, the unit agreement name, number and participating area name. As appropriate, the communitization agreement number.

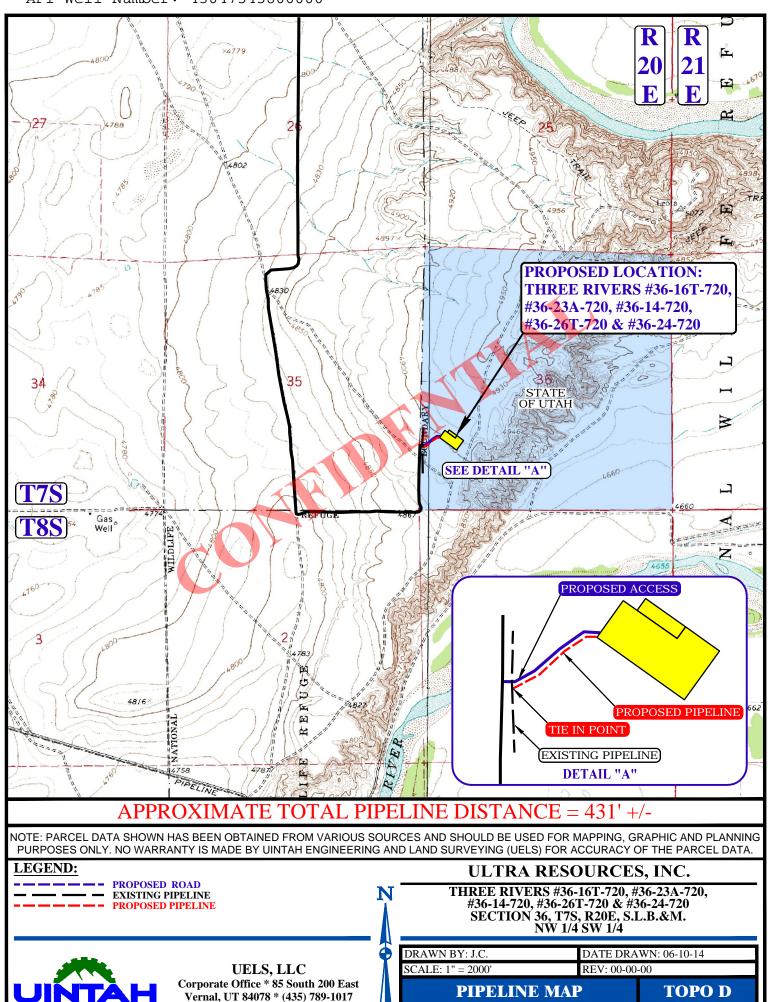


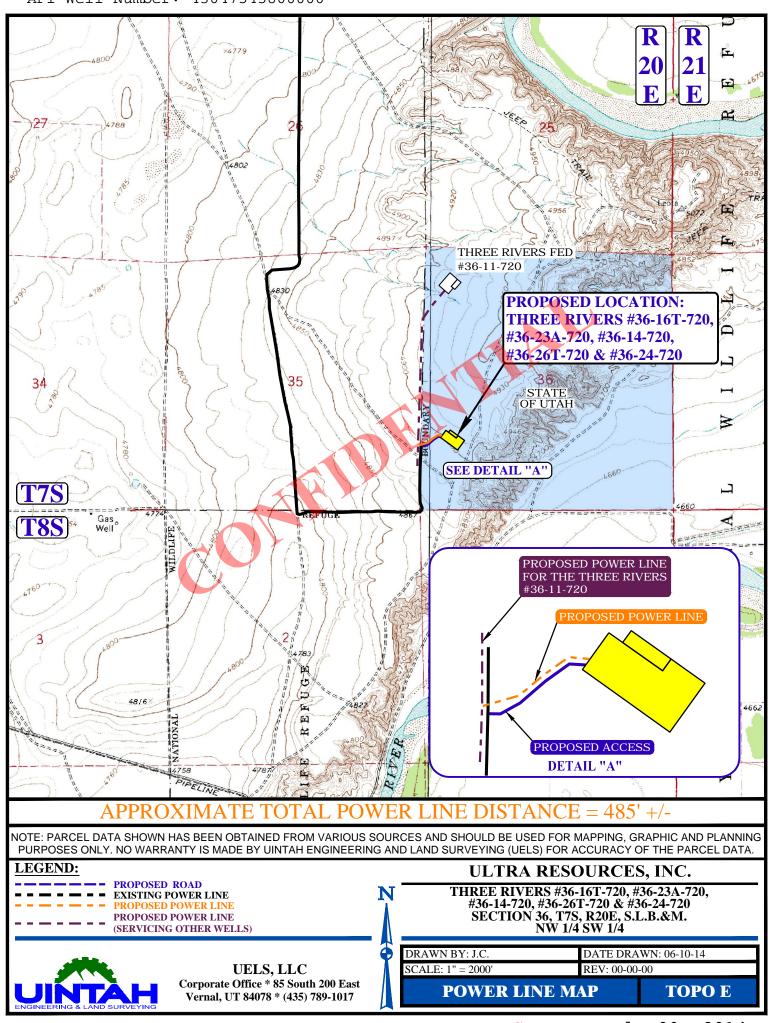




Corporate Office \* 85 South 200 East

Vernal, UT 84078 \* (435) 789-1017





True Vertical Depth (

500

1000

2000

Vertical Section (ft)

Azimuth 97.39° with reference 0.00 N, 0.00 E

3000

4000

Scale 1 inch = 1000 ft

Page 1 of 5

**DYNAMIC** 

GRAPHICS, INC.

API Well Number: 43047545800000



## **Planned Wellpath Report**



Three Rivers 36-26T-720 PWP Page 1 of 5

REFERENC	REFERENCE WELLPATH IDENTIFICATION							
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-26T-720 (1472' FSL & 714' FWL)					
Area	Three Rivers	Well	Three Rivers 36-26T-720					
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-26T-720 PWB					
Facility	Sec.36-T7S-R20E							

REPORT SETUP INFORMA	REPORT SETUP INFORMATION								
Projection System	NAD83 / Lambert Utah SP, Central Zone (4302), US feet	Software System	WellArchitect® 3.0.0						
North Reference	True	User	Ewilliams						
Scale	0.999915	Report Generated	7/3/2014 at 1:32:36 PM						
Convergence at slot	n/a	Database/Source file	WellArchitectDB/Three_Rivers_36-26T-720_PWB.xml						

WELLPATH LOCATION							
	Local coor	rdinates	Grid co	oordinates	Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	-3193.67	48.06	2164704.64	7233686.59	40°09'47.690"N	109°37'25.900"W	
Facility Reference Pt			2164589.62	7236878.28	40°10'19.250"N	109°37'26.519"W	
Field Reference Pt			2156630.96	7236613.42	40°10'18.270"N	109°39'09.100"W	

WELLPATH DATU		
Calculation method	Minimum curvature	Rig on Three Rivers 36-26T-720 (1472' FSL & 714' FWL) (RT) to Facility Vertical Datum
Horizontal Reference Pt	Slot	Rig on Three Rivers 36-26T-720 (1472' FSL & 714' FWL) (RT) to Mean Sea Level
Vertical Reference Pt	Rig on Three Rivers 36-26T-720 (1472' FSL & 714' FWL) (RT	Rig on Three Rivers 36-26T-720 (1472' FSL & 714' FWL) (RT) to Mud Line at Slot (Three Rivers 36-26T-720 (1472' FSL & 714' FWL))
MD Reference Pt	Rig on Three Rivers 36-26T-720 (1472' FSL & 714' FWL) (RT	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth



# Planned Wellpath Report Three Rivers 36-26T-720 PWP Page 2 of 5



REFERENC	REFERENCE WELLPATH IDENTIFICATION							
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-26T-720 (1472' FSL & 714' FWL)					
Area	Three Rivers	Well	Three Rivers 36-26T-720					
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-26T-720 PWB					
Facility	Sec.36-T7S-R20E							

ID	Inclination	Azimuth	TVD	Vert Sect	North	East	Latitude	Longitude	DLS	Comments
(t) 0.00†	[°]	[°] 97.393	[ft] 0.00	[ft] 0.00	[ft] 0.00	[ft] 0.00	40°09'47.690"N	109°37'25.900"W	[°/100ft] 0.00	
13.00	0.000	97.393	13.00	0.00	0.00	0.00	40°09'47.690"N 40°09'47.690"N	109°37'25.900"W	0.00	-
113.00†	0.000	97.393	113.00	0.00	0.00	0.00	40°09'47.690 N 40°09'47.690"N	109°37′25.900°W	0.00	<del>                                     </del>
120.00†	0.000	97.393	120.00	0.00	0.00	0.00	40°09'47.690 N 40°09'47.690"N	109°37′25.900°W		Base Gravel
213.00†	0.000	97.393	213.00	0.00	0.00	0.00	40°09'47.690"N	109 37 25.900 W	0.00	Danc Graver
313.00†	0.000	97.393	313.00	0.00	0.00	0.00	40°09'47.690"N	109 37 25.900 W	0.00	<del>                                     </del>
413.00†	0.000	97.393	413.00	0.00	0.00	0.00	40°09'47.690"N	109°37′25.900′W	0.00	<del>                                     </del>
513.00†	0.000	97.393	513.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	<del>                                     </del>
613.00†	0.000	97.393	613.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	<del>                                     </del>
713.00†	0.000	97.393	713.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	
813.00†	0.000	97.393	813.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	<u> </u>
913.00†	0.000	97.393	913.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	
1013.00†	0.000	97.393	1013.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	
1113.00†	0.000	97.393	1113.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	
1200.00	0.000	97.393	1200.00	0.00	0.00	0.00	40°09'47.690"N	109°37'25.900"W	0.00	
1213.00†	0.260	97.393	1213.00	0.03	0.00	0.03	40°09'47.690"N	109°37'25.900"W	2.00	
1313.00†	2.260	97.393	1312.97	2.23	-0.29	2.21	40°09'47.687"N	109°37'25.872"W	2.00	
1413.00†	4.260	97.393	1412.80	7.91	-1.02	7.85	40°09'47.680"N	109°37'25.799"W	2.00	
1513.00†	6.260	97.393	1512.38	17.08	-2.20	16.94	40°09'47.668"N	109°37'25.682"W	2.00	
1613.00†	8.260	97.393	1611.57	29.72	-3.82	29.47	40°09'47.652"N	109°37'25.520"W	2.00	
1713.00†	10.260	97.393	1710.26	45.81	-5.89	45.43	40°09'47.632"N	109°37'25.315"W	2.00	
1813.00†	12.260	97.393	1808.33	65.33	-8.41	64.79	40°09'47.607"N	109°37'25.065"W	2.00	
1913.00†	14.260	97.393	1905.66	88.27	-11.36	87.54	40°09'47.578"N	109°37'24.773"W	2.00	
2013.00†	16.260	97.393	2002.13	114.59	-14.74	113.64	40°09'47.544"N	109°37'24.436"W	2.00	
2113.00†	18.260	97.393	2097.62	144.26	-18.56	143.06	40°09'47.507"N	109°37'24.057"W	2.00	
2213.00†	20.260	97.393	2192.02	177.24	-22.81	175.77	40°09'47.465"N	109°37'23.636"W	2.00	
2313.00†	22.260	97.393	2285.21	213.50	-27.47	211.73	40°09'47.419"N	109°37'23.173"W	2.00	Ļ
2413.00†	24.260	97.393	2377.08	252.99	-32.55	250.89	40°09'47.368"N	109°37'22.669"W	2.00	
2513.00†	26.260	97.393	2467.51	295.66	-38.04	293.20	40°09'47.314"N	109°37'22.123"W	2.00	ļ
2528.33	26.567	97.393	2481.24	302.48	-38.92	299,96	40°09'47.305"N	109°37'22.036"W	2.00	Ļ
2613.00†	26.567	97.393	2556.97	340.35	-43.79	337.52	40°09'47.257"N	109°37'21.553"W	0.00	
2661.11†	26.567	97.393	2600.00	361.86	-46.56	358.85	40°09'47.230"N	109°37'21.278"W		BMSW
2713.00† 2813.00†	26.567 26.567	97.393 97.393	2646.41 2735.85	385.07 429.79	-49.55 -55.30	381.87 426.22	40°09'47.200"N 40°09'47.143"N	109°37'20.981"W 109°37'20.410"W	0.00	
2913.00†	26.567	97.393	2/35.85	429.79 474.52	-55.30	426.22 470.57	40°09'47.143"N 40°09'47.087"N	109°37'20.410"W 109°37'19.839"W	0.00	
3013.00†	26.567	97.393	2825.30	519.24	-66.81	514.92	40°09'47.087"N 40°09'47.030"N	109°37'19.839"W	0.00	<del>                                     </del>
3113.00†	26.567	97.393	3004.18	563.97	-72.57	559.28	40°09'46.973"N	109°37'19.268 W	0.00	-
3213.00†	26.567	97.393	3093.62	608.69	-78.32	603.63	40°09'46.916"N	109°37'18.096 W	0.00	-
3220.13†	26.567	97.393	3100.00	611.88	-78.73	606.79	40°09'46.912"N	109 37 18.123 W		Green River Top
3313.00†	26.567	97.393	3183.06	653.41	-84.08	647.98	40°09'46.859"N	109 37 18.084 W	0.00	Orecii Kivel Top
3413.00†	26.567	97.393	3272.50	698.14	-89.83	692.33	40°09'46.802"N	109 37 17.334 W	0.00	<del>                                     </del>
3513.00†	26.567	97.393 97. <mark>3</mark> 93	3361.95	742.86	-95.59	736.68	40°09'46.745"N	109 37 10.983 W	0.00	<del>                                     </del>
3613.00†	26.567	97.393	3451.39	787.58	-101.34	781.04	40°09'46.688"N	109 37 10.411 W	0.00	<del>                                     </del>
3713.00†	26.567	97.393	3540.83	832.31	-107.10	825.39	40°09'46.632"N	109 37 15.840 W	0.00	<del>                                     </del>
3813.00†	26.567	97.393	3630.27	877.03	-112.85	869.74	40°09'46.575"N	109°37'14.697"W	0.00	<del></del>



# Planned Wellpath Report Three Rivers 36-26T-720 PWP Page 3 of 5



REFERENC	REFERENCE WELLPATH IDENTIFICATION							
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-26T-720 (1472' FSL & 714' FWL)					
Area	Three Rivers	Well	Three Rivers 36-26T-720					
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-26T-720 PWB					
Facility	Sec.36-T7S-R20E							

MD I	ATA (87 station	s) † = interp	TVD	Vert Sect	North	East	Latitude	Longitude	DLS	Comments
Ifti	101111111111111111111111111111111111111	191	[ft]	[ft]	Iftl	Ift]	Latitude	Longitude	1°/100ft1	Comments
3913.00†	26.567	97.393	3719.71	921.76	-118.61	914.09	40°09'46.518"N	109°37'14.126"W	0.00	ĺ
4013.00†	26.567	97.393	3809.15	966.48	-124.36	958.44	40°09'46.461"N	109°37'13.555"W	0.00	
4023.74	26.567	97.393	3818.76	971.28	-124.98	963.21	40°09'46.455"N	109°37'13.494"W	0.00	
4113.00†	24.781	97.393	3899.20	1009.95	-129.96	1001.56	40°09'46.406"N	109°37'13.000"W	2.00	
4213.00†	22.781	97.393	3990.71	1050.28	-135.14	1041.54	40°09'46.354"N	109°37'12.485"W	2.00	
4313.00†	20.781	97.393	4083.56	1087.38	-139.92	1078.34	40°09'46.307"N	109°37'12.011"W	2.00	
4413.00†	18.781	97.393	4177.66	1121.22	-144.27	1111.90	40°09'46.264"N	109°37'11.578"W	2.00	
4513.00†	16.781	97.393	4272.88	1151.76	-148.20	1142.18	40°09'46.225"N	109°37'11.188"W	2.00	
4613.00†	14.781	97.393	4369.10	1178.95	-151.70	1169.15	40°09'46.191"N	109°37'10.841"W	2.00	
4634.59†	14.350	97.393	4390.00	1184.38	-152.40	1174.54	40°09'46.184"N	109°37'10.772"W	2.00	Mahogany
4713.00†	12.781	97.393	4466.22	1202.77	-154.77	1192.78	40°09'46.160"N	109°37'10.537"W	2.00	
4813.00†	10.781	97.393	4564.11	1223.19	-157.39	1213.02	40°09'46.134"N	109°37'10.276"W	2.00	
4913.00†	8.781	97.393	4662.65	1240.18	-159.58	1229.87	40°09'46.113"N	109°37'10.059"W	2.00	
5013.00†	6.781	97.393	4761.72	1253.72	-161.32	1243.30	40°09'46.095"N	109°37'09.886"W	2.00	
5113.00†	4.781	97.393	4861.21	1263.79	-162.62	1253.28	40°09'46.083"N	109°37'09.757"W	2.00	
5213.00†	2.781	97.393	4960.99	1270.39	-163.47	1259.82	40°09'46.074"N	109°37'09.673"W	2.00	
5302.07†	1.000	97.393	5050.00	1273.32	-163.85	1262.74	40°09'46.071"N	109°37'09.636"W	2.00	Garden Gulch
5313.00†	0.781	97.393	5060.93	1273.49	-163.87	1262.91	40°09'46.070"N	109°37'09.633"W	2.00	
5352.07	0.000	97.393	5100.00 <sup>1</sup>	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	2.00	
5413.00†	0.000	97.393	5160.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
5427.07†	0.000	97.393	5175.00	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	Lower Green River
5513.00†	0.000	97.393	5260.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
5613.00†	0.000	97.393	5360.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	ĺ
5713.00†	0.000	97.393	5460.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	ĺ
5813.00†	0.000	97.393	5560.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	ĺ
5913.00†	0.000	97.393	5660.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6013.00†	0.000	97.393	5760.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6113.00†	0.000	97.393	5860.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6213.00†	0.000	97.393	5960.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6313.00†	0.000	97.393	6060.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6413.00†	0.000	97.393	6160.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6513.00†	0.000	97.393	6260.93	1273.76	-163,90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6613.00†	0.000	97.393	6360.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6713.00†	0.000	97.393	6460.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6813.00†	0.000	97.393	6560.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
6913.00†	0.000	97.393	6660.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
7013.00†	0.000	97.393	6760.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
7113.00†	0.000	97.393	6860.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
7202.07†	0.000	97.393	6950.00	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	Wasatch
7213.00†	0.000	97.393	6960.93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
7313.00†	0.000	97.393	7060,93	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	
7402.07	0.000	97,393	7150.00	1273.76	-163.90	1263.17	40°09'46.070"N	109°37'09.630"W	0.00	TD

Page 4 of 5

API Well Number: 43047545800000



## **Planned Wellpath Report**

Three Rivers 36-26T-720 PWP Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION									
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-26T-720 (1472' FSL & 714' FWL)						
Area	Three Rivers	Well	Three Rivers 36-26T-720						
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-26T-720 PWB						
Facility	Sec.36-T7S-R20E								

OLE & CASING SECTIONS - Ref Wellbore: Three Rivers 36-26T-720 PWB Ref Wellpath: Three Rivers 36-26T-720 PWP													
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]				
16in Conductor	13.00	120.00	107.00	13.00	120.00	0.00	0.00	0.00	0.00				
12.25in Open Hole	120.00	1000.00	880.00	120.00	1000.00	0.00	0.00	0.00	0.00				
8.625in Casing Surface	13.00	1000.00	987.00	13.00	1000.00	0.00	0.00	0.00	0.00				
7.875in Open Hole	1000.00	7402.07	6402.07	1000.00	7150.00	0.00	0.00	-163.90	1263.17				
5.5in Casing Production	13.00	7402.07	7389.07	13.00	7150.00	0.00	0.00	-163.90	1263.17				

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Three Rivers 36-26T-720 Target On Plat 1300' FSL & 1980' FWL		5000.00		1263.17	2165970.86	7233549.23	40°09'46.070"N	109°37'09.630"W	point
				_					
<b>A</b>			R	D'					
		<i>)</i>							



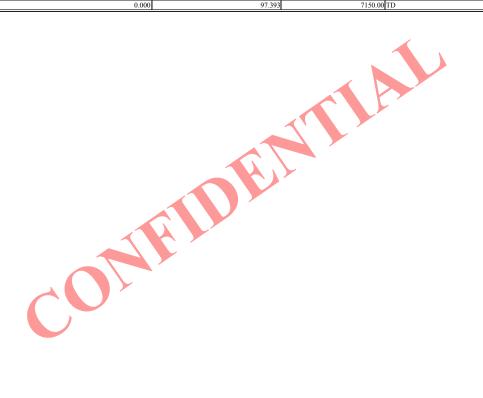
## **Planned Wellpath Report**

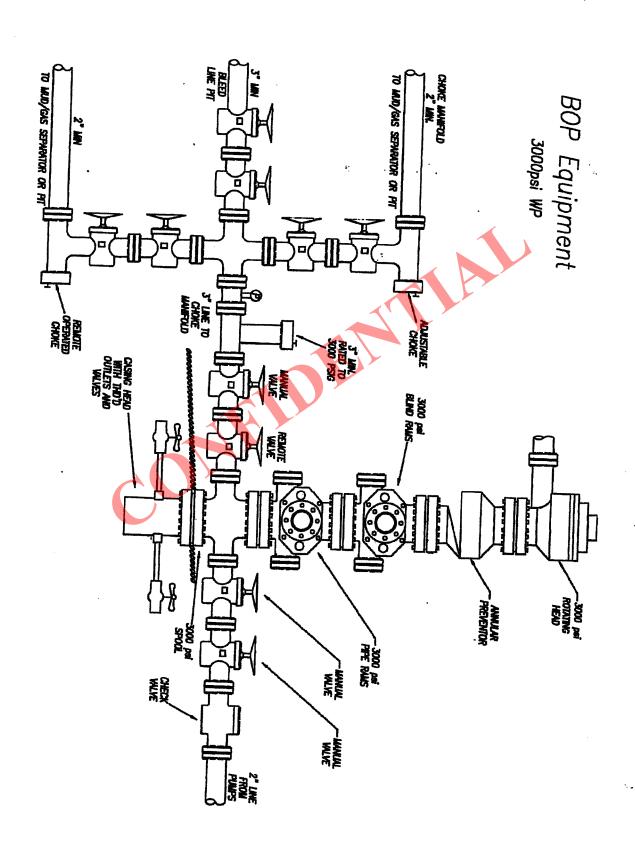
Three Rivers 36-26T-720 PWP Page 5 of 5



REFERENC	REFERENCE WELLPATH IDENTIFICATION									
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-26T-720 (1472' FSL & 714' FWL)							
Area	Three Rivers	Well	Three Rivers 36-26T-720							
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-26T-720 PWB							
Facility	Sec.36-T7S-R20E									

WELLPATH COMMENTS														
MD	Inclination	Azimuth	TVD	Comment										
[ft]	[°]	[°]	[ft]											
120.00	0.000	97.393	120.00	Base Gravel										
2661.11	26.567	97.393	2600.00	BMSW										
3220.13	26.567	97.393	3100.00	Green River Top										
4634.59	14.350	97.393	4390.00	Mahogany										
5302.07	1.000	97.393	5050.00	Garden Gulch										
5427.07	0.000	97.393	5175.00	Lower Green River										
7202.07	0.000	97.393	6950.00	Wasatch										
7402.07	0.000	97.393	7150.00	TD										







# Ultra Resources, Inc.

July 9, 2014

Mr. Dustin Doucet Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

**RE: Request for Exception to Spacing** 

**Three Rivers 36-26T-720** 

Surface Location: 1472' FSL & 714' FWL, NWSW, Sec. 36, T7S, R20E Target Location: 1300' FSL & 1980' FWL, SESW, Sec. 36, T7S, R20E

SLB&M, Uintah County, Utah

Dear Mr. Doucet:

Ultra Resources, Inc. ("Ultra") respectfully submits this request for exception to spacing (**Docket No. 2013-030 / Cause No. 270-02**) based on geology since the well is located less than 100 feet to the drilling unit boundary.

The adjacent drilling unit boundary is covered by the same lease and has the identical production interest owners in it.

Ultra owns 100% of the leasehold within 460 feet of the surface and target location as well as all points along the intended well bore path.

Thank you very much for your timely consideration of this application. Please feel free to contact me at 303-645-9810 should you have any questions or need additional information.

Sincerely,

Debbie Ghani Sr. Permitting Specialist

/dg

RECEIVED: July 09, 2014

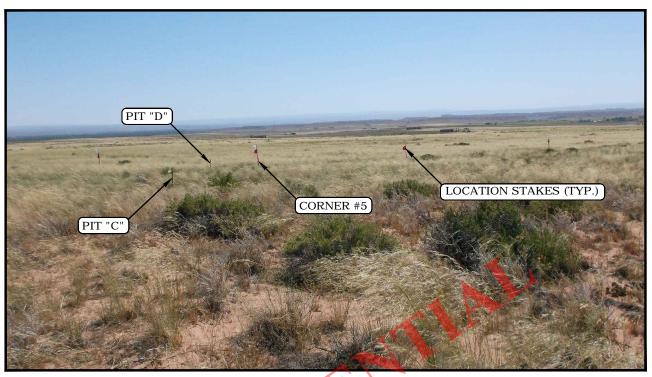


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: NORTHEASTERLY** 

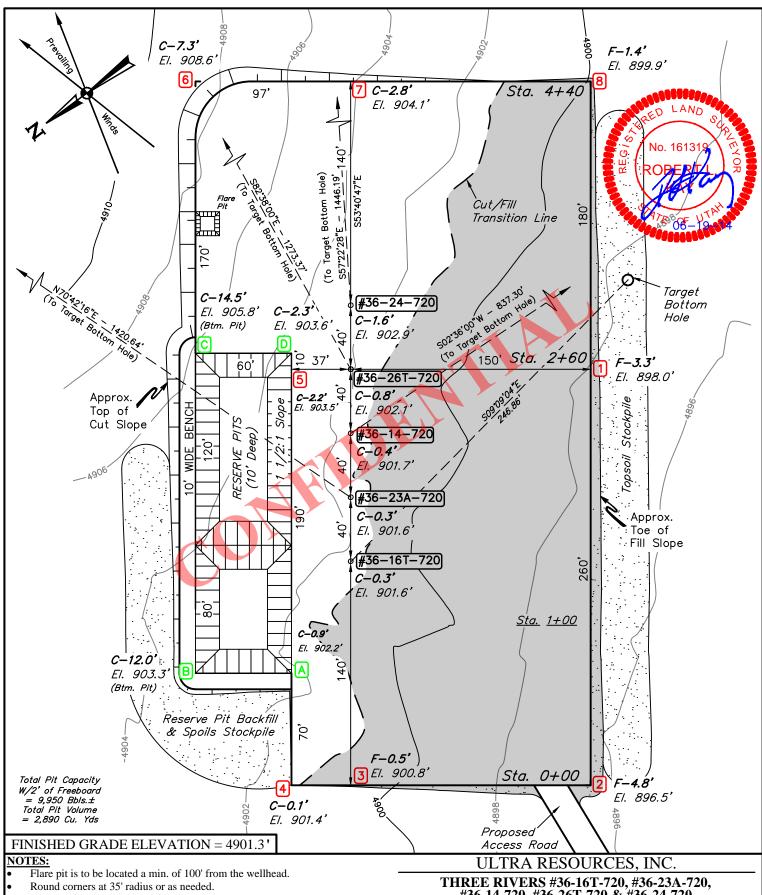
### **ULTRA RESOURCES, INC.**

THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: J.C.	WN: 06-10-14				
TAKEN BY: M.P.	REV: 00-00-00				
LOCATION PHOT	COS	РНОТО			



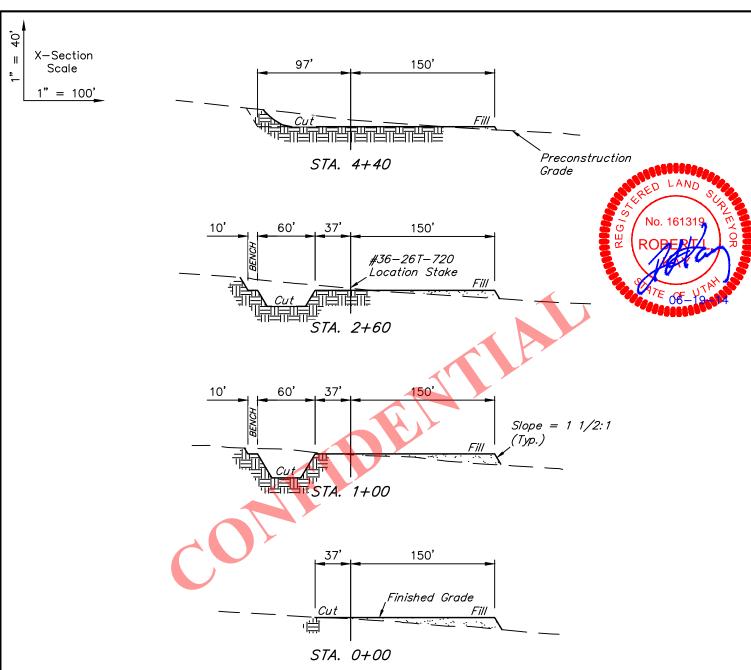
Contours shown at 2' intervals.

#36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.S. DATE DRAWN: 06-06-14 SCALE: 1" = 60 REVISED: 00-00-00 **LOCATION LAYOUT** FIGURE #1



VORK QUANTITIES
2,110 Cu. Yds.
6,840 Cu. Yds.
8,950 Cu. Yds.
5,390 Cu. Yds.
3,560 Cu. Yds.
3,560 Cu. Yds.
0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS									
DISTANCE ACRE									
WELL SITE DISTURBANCE	NA	±3.117							
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±470.65'	±0.324							
30' WIDE PIPELINE R-O-W DISTURBANCE	±431.06'	±0.297							
TOTAL SURFACE USE AREA	±901.71'	±3.738							

#### NOTES:

- Fill quantity includes 5% for compaction.
- Calculations based on 6" of topsoil stripping.
- Topsoil should not be stripped below finished grade on substructure area.

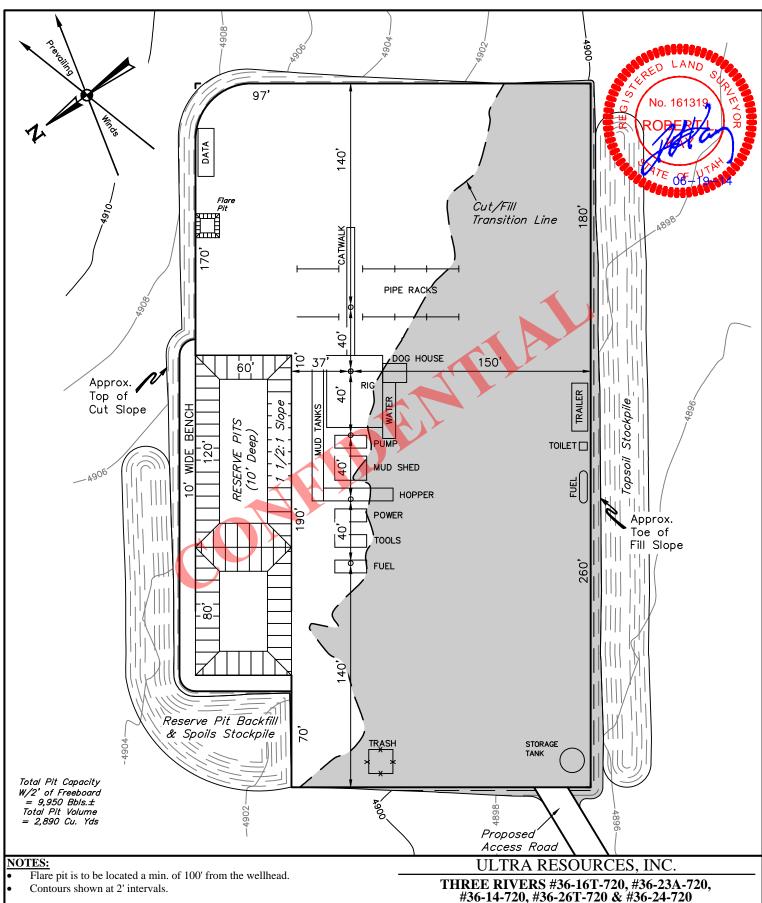
#### ULTRA RESOURCES, INC.

THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



**UELS, LLC**Corporate Office \* 85 South 200 East
Vernal, UT 84078 \* (435) 789-1017

TVDICAL CDOSS SEC	TIONS FIGURE #2
SCALE: AS SHOWN	REVISED: 00-00-00
DRAWN BY: S.S.	DATE DRAWN: 06-06-14



THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.S. DATE DRAWN: 06-06-14 REVISED: 00-00-00 TYPICAL RIG LAYOUT FIGURE #3

PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 9.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 471 TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 28.0 MILES.

#### **ULTRA RESOURCES, INC.**

THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4

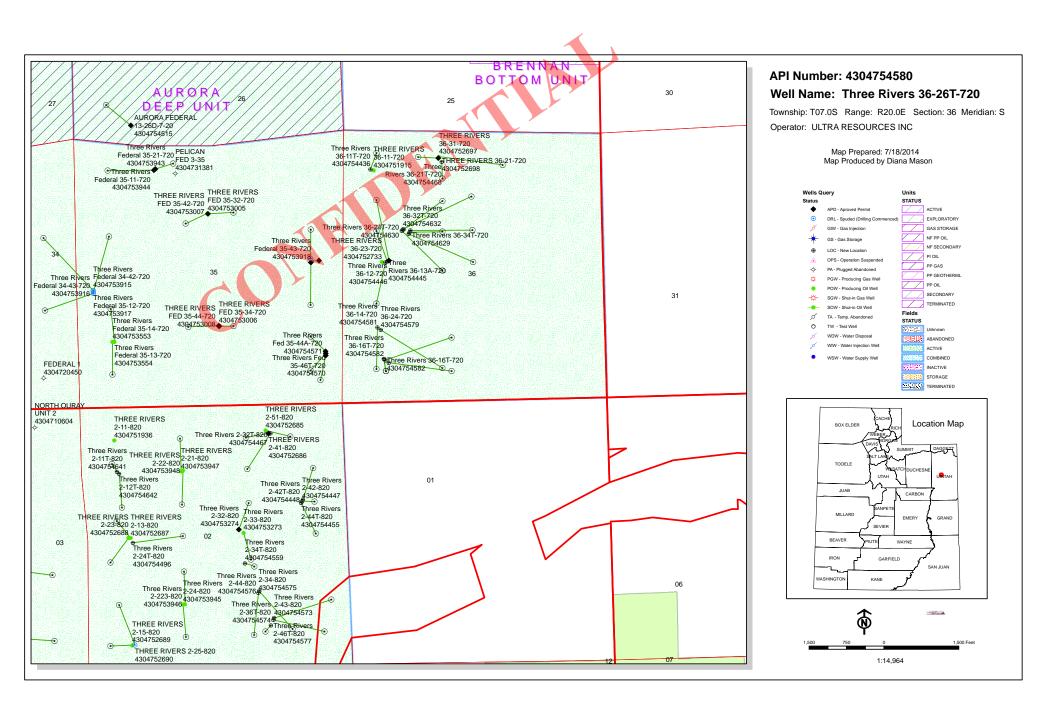


UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017 DRAWN BY: J.C.

DATE DRAWN: 06-10-14

REV: 00-00-00

ROAD DESCRIPTION



utah gov

Diana Mason <dianawhitney@utah.gov>

## **Ultra Well Approvals**

#### Jeff Conley < jconley@utah.gov>

Wed, Sep 3, 2014 at 2:45 PM

To: Diana Mason <dianawhitney@utah.gov>, Bradley Hill <br/>bradhill@utah.gov>

Cc: starpoint <starpoint@etv.net>, kbott@ultrapetroleum.com, janderson@ultrapetroleum.com, Jim Davis <jimdavis1@utah.gov>

Hello,

9/3/2014

The following wells have been approved by SITLA including arch and paleo with the stipulation that a paleo monitor be on site if bedrock is impacted:

(4304754573) Three Rivers 2-43-820 (4304754574) Three Rivers 2-36T-820 (4304754575) Three Rivers 2-34-820 (4304754576) Three Rivers 2-44-820 (4304754577) Three Rivers 2-46T-820 (4304754578) Three Rivers 36-23A-720 (4304754579) Three Rivers 36-24-720 (4304754580) Three Rivers 36-26T-720 (4304754581) Three Rivers 36-14-720 (4304754582) Three Rivers 36-16T-720 (4304754627) Three Rivers 36-32-720 (4304754628) Three Rivers 36-22T-720 (4304754629) Three Rivers 36-34T-720 (4304754630) Three Rivers 36-24T-720 (4304754631) Three Rivers 36-22-720 (4304754632) Three Rivers 36-32T-720

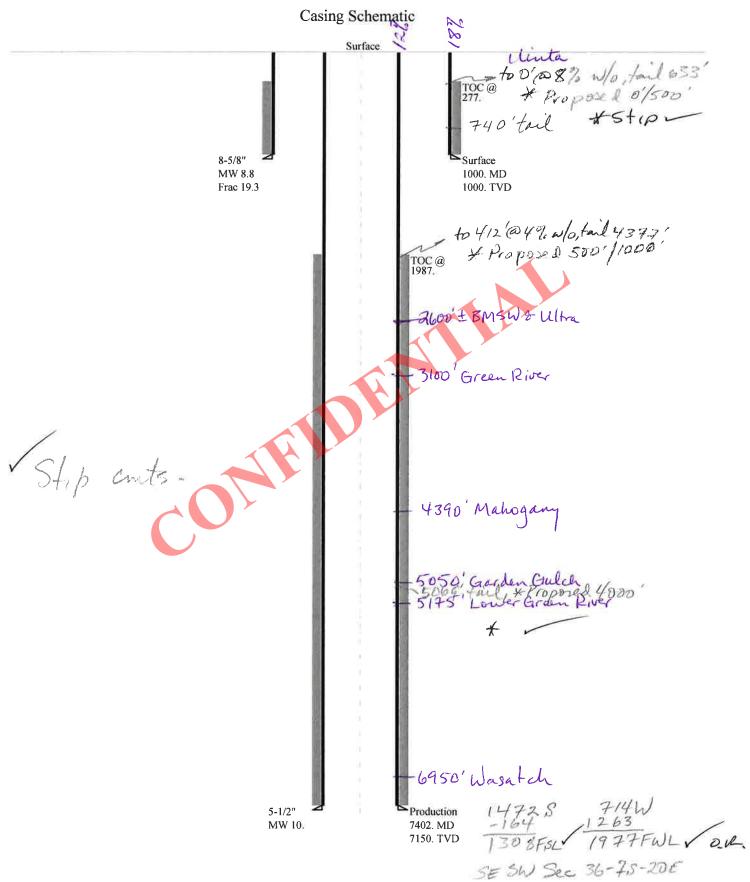
Thanks,

Jeff Conley SITLA Resource Specialist jconley@utah.gov 801-538-5157

#### BOPE REVIEW ULTRA RESOURCES INC Three Rivers 36-26T-720 43047545800000

Well Name	ame ULTRA RESOURCES INC Three Rivers 36-26T-720					430	4754580000	0
String		Surf	Prod	T		T		<u> </u>
Casing Size(")		8.625	5.500	1		Ť		1
Setting Depth (TVD)		1000	7150	1		Ť		-
Previous Shoe Setting Dept	h (TVD)	0	1000	1		Ī		- -
Max Mud Weight (ppg)		8.8	10.0	†		Ī		<u>-</u>
BOPE Proposed (psi)		500	3000	+		Ī		<del>-</del>
Casing Internal Yield (psi)		2950	5320	+		<u>                                    </u>		<del> </del>
Operators Max Anticipated Pressure (psi)		3650	9.8	+		<u>      .</u> 		<u>-</u>
o Parameter	( <b>F</b> **-)	3630	9.8	_		ĮI.		1
Calculations		Surf Stri	ing				8.625	"
Max BHP (psi)		.0	52*Setting	De	epth*MW=	45	8	
								BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Set	tir	ng Depth)=	33	8	YES diverter with rotating head
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Set	tir	ng Depth)=	23	8	YES OK
					_		*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	<u> </u>	Setting Depth	- Previous S	ho	oe Depth)=	23	8	NO OK
Required Casing/BOPE Tes	st Pressure=					10	00	psi
*Max Pressure Allowed @	Previous Casing	Shoe=				0		psi *Assumes 1psi/ft frac gradient
Calculations	I	Prod Str	inσ	_			5,500	11
Max BHP (psi)			)52*Setting	D	epth*MW=	37		
4 /				٩		131	10	BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Set	tir	ng Depth)=	28	60	YES 3M BOP, dbl ram, annular with diverter and rotating head
MASP (Gas/Mud) (psi)		Max BH	P-(0,22*Set	tir	ng Depth)=	21		YES OK
				_		12.	40	*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	Setting Depth	- Previous S	ho	oe Depth)=	23	65	NO OK
Required Casing/BOPE Tes	st Pressure=					30		psi
*Max Pressure Allowed @ :	Previous Casing	Shoe=				10		psi *Assumes 1psi/ft frac gradient
						1		
Calculations		String						"
Max BHP (psi)		.0	)52*Setting	De	epth*MW=			
				_		_		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)			P-(0.12*Set	_		_		NO
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Set	tir	ng Depth)=	_		NO .
Dungana A4 D 1 Ci	M DHD 22***	Sautina B. Id	D: 2	1.	D (1)	_		*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	<u> </u>	setting Depth	- Previous S	no	be Depth)=	<u> </u>		NO .
Required Casing/BOPE Tes		a.				_		psi
*Max Pressure Allowed @	Previous Casing	Shoe=						psi *Assumes 1psi/ft frac gradient
Calculations		String		_		_		"
Max BHP (psi)			052*Setting	De	epth*MW=	Г		
						1-		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Set	tir	ng Depth)=			NO
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Set	tir	ng Depth)=			NO
								*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	Setting Depth	- Previous S	ho	oe Depth)=			NO
Required Casing/BOPE Tes	st Pressure=							psi
*Max Pressure Allowed @	Previous Casing	Shoe=						psi *Assumes 1psi/ft frac gradient
				_		<u></u>		-

# 43047545800000 Three Rivers 36-26T-720



Well name: 43047545800000 Three Rivers 36-26T-720

Operator: ULTRA RESOURCES INC

String type: Surface Project ID:

43-047-54580

Location: UINTAH COUNTY

Design parameters: Minimum design factors: Environment:

CollapseCollapse:H2S considered?NoMud weight:8.800 ppgDesign factor1.125Surface temperature:74 °FDesign is based on evacuated pipe.Bottom hole temperature:88 °F

Design is based on evacuated pipe.

Bottom hole temperature: 88 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Burst:

Design factor 1.00 Cement top: 277 ft

Burst

Max anticipated surface

pressure: 880 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,000 psi 8 Round STC: 8 Round LTC: 1.80 (J)
8 Round LTC: 1.70 (J)

No backup mud specified.

Buttress: 1.60 (J)
Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point:
868 ft

Re subsequent strings:

Next setting depth: 7,150 ft
Next mud weight: 10.000 ppg
Next setting BHP: 3,714 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,000 ft

Injection pressure:

1,000 psi

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
•	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	1000	8.625	24.00	J-55	ST&C	1000	1000	7.972	5148
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	457	1370	2.997	1000	2950	2.95	20.8	244	11.71 J

Prepared Helen Sadik-Macdonald by: Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940 Date: September 24,2014 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43047545800000 Three Rivers 36-26T-720 Well name:

**ULTRA RESOURCES INC** Operator:

Production

String type:

Project ID: 43-047-54580

**UINTAH COUNTY** Location:

**Environment:** Design parameters: Minimum design factors:

Collapse: Collapse H2S considered? No Mud weight: 10.000 ppg Design factor Surface temperature: 74 °F 1.125 174 °F Design is based on evacuated pipe. Bottom hole temperature:

1.40 °F/100ft Temperature gradient:

Directional Info - Build & Drop

1200 ft

1274 ft

2 °/100ft 0 °

Kick-off point

Departure at shoe:

Maximum dogleg:

Inclination at shoe:

Minimum section length: 1,000 ft

**Burst:** 

1.00 1,987 ft Design factor Cement top:

**Burst** 

Max anticipated surface

pressure: 2,141 psi Internal gradient: 0.220 psi/ft Calculated BHP

3,714 psi

No backup mud specified.

Tension: 8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) **Buttress:** 1.60 (J) 1.50 (J) Premium: 1.60 (B)

Body yield:

Tension is based on buoyed weight. Neutral point: 6,318 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
-	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	7402	5.5	17.00	J-55	LT&C	7150	7402	4.767	28676
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
-	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	3714	4910	1.322	3714	5320	1.43	103.1	247	2.40 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Mining by:

Phone: 801 538-5357 FAX: 801-359-3940

Date: September 24,2014 Salt Lake City, Utah

Collapse is based on a vertical depth of 7150 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

# **ON-SITE PREDRILL EVALUATION**

# Utah Division of Oil, Gas and Mining

**Operator** ULTRA RESOURCES INC **Well Name** Three Rivers 36-26T-720

API Number 43047545800000 APD No 9993 Field/Unit THREE RIVERS

Location: 1/4,1/4 NWSW Sec 36 Tw 7.0S Rng 20.0E 1472 FSL 714 FWL

GPS Coord (UTM) 617184 4446787 Surface Owner

#### **Participants**

Martin Pierce (surveyor), Ben Williams (UDWR), Jeff Conley (SITLA), Dan Schaad (USFWS), Jim Burns (Ultra), Richard Powell (UDOGM)

#### Regional/Local Setting & Topography

This proposed 5 oil well site sits approximately 2.5 miles south east of Pelican Lake on SITLA land being leased by the USFWS and managed as part of the Ouray Wildlife Refuge. The Green River is about .75 of a mile to the south and east. The site is generally flat with a gradual slope toward Pelican Lake to the northwest.

#### Surface Use Plan

**Current Surface Use** 

Wildlfe Habitat

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0.1 Width 250 Length 440 Offsite UNTA

Y

Ancillary Facilities N

Waste Management Plan Adequate?

#### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

Flora / Fauna

Indian rice grass and other grasses, horse brush Good antelope habitat

Soil Type and Characteristics

Loamy sand with gravel

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

permeable soil

#### **Erosion Sedimentation Control Required?** N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

#### **Reserve Pit**

Site-Specific Factors	Site Ran	king	
Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	High permeability	20	
Fluid Type	TDS>5000 and _	10	
<b>Drill Cuttings</b>	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	60	1 Sensitivity Level

#### Characteristics / Requirements

According to Ultra representative Jim Burns a closed loop drilling mud system will be used for this well and all other wells drilled on this location. If a reserve pit is placed as indicated on the survey layout it will be in a cut stable location and due to very permeable soil and rock it will require a 20 mil liner and felt subliner.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

#### Other Observations / Comments

Evaluator	Date / Time
Richard Powell	7/31/2014

# Application for Permit to Drill Statement of Basis

## Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	<b>CBM</b>
9993	43047545800000	SITLA	OW	S	No
Operator	ULTRA RESOURCES INC		Surface Owner-APD		

Well Name Three Rivers 36-26T-720 Unit

Field THREE RIVERS Type of Work DRILL

Location NWSW 36 7S 20E S 1472 FSL 714 FWL GPS Coord

(UTM) 617254E 4446582N

#### **Geologic Statement of Basis**

Ultra proposes to set 1,000 feet of surface pipe, cemented to surface. The depth to the base of the moderately saline water at this location is estimated to be at approximately 2,600 feet. A search of Division of Water Rights records shows 6 water wells within a 10,000 foot radius of the center of Section 36. Wells in the area are listed for EOR makeup water, and stock watering. Depths are listed for only 2 wells at 40 and 70 feet. Listed wells probably produce from the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to the base of the moderately saline ground water.

Brad Hill 9/18/2014
APD Evaluator Date / Time

#### **Surface Statement of Basis**

This proposed 5 oil well site is on state surface with state minerals. The land is currently leased by the USFWS and managed as part of the Ouray Wildlife Refuge. The site is placed near the top west side of a large hill or ridge with a large flat top. This ridge creates a divide between the Pelican Lake basin and the Green River flood plain. Drainage from the location is toward Pelican Lake approximately 2.5 miles to the northwest. According to Ultra representative Jim Burns all future drilling will be done with a closed loop mud system and reserve pits will no longer be used. If a reserve pit is used as indicated on survey layout it would acceptable. Due to permeable soil this location must be bermed. USFWS representative Dan Schaad stated that this well pad had been shifted west approximately 100 ft to be out of view of the river side of the Ouray wildlife refuge and expressed appreciation that Ultra had worked with him on this. SITLA representative Jeff Conley requested that Ultra Resources ensure that no vehicle or equipment disturbance takes place off the pad. UDWR representative Ben Williams stated that this is antelope habitat but stated that he would make no wildlife recommendations for this site. This appears to be a good site for placement of this well.

Richard Powell 7/31/2014

Onsite Evaluator Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit. Aclosed loop mud system may be used.

Surface The well site shall be bermed to prevent fluids from entering or leaving the pad.

Surface Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation

and stability issues.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

Surface The reserve pit shall be fenced upon completion of drilling operations.



### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 7/9/2014 API NO. ASSIGNED: 43047545800000 WELL NAME: Three Rivers 36-26T-720 **OPERATOR: ULTRA RESOURCES INC (N4045)** PHONE NUMBER: 303 645-9804 **CONTACT:** Jenna Anderson PROPOSED LOCATION: NWSW 36 070S 200E **Permit Tech Review:** 1 SURFACE: 1472 FSL 0714 FWL **Engineering Review:** BOTTOM: 1300 FSL 1980 FWL Geology Review: **COUNTY: UINTAH LATITUDE: 40.16331** LONGITUDE: -109.62313 UTM SURF EASTINGS: 617254.00 NORTHINGS: 4446582.00 FIELD NAME: THREE RIVERS LEASE TYPE: 3 - State LEASE NUMBER: ML50510 PROPOSED PRODUCING FORMATION(S): GREEN RIVER - LOWER SURFACE OWNER: 3 - State **COALBED METHANE: NO RECEIVED AND/OR REVIEWED:** LOCATION AND SITING: ✓ PLAT R649-2-3. Bond: STATE/FEE - 022046398 Unit: **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 270-02 Water Permit: 49-2262 Effective Date: 11/9/2013 **RDCC Review:** Siting: 2 Wells Per 40 Acres Fee Surface Agreement

R649-3-11. Directional Drill

Comments: Presite Completed

Intent to Commingle

**Commingling Approved** 

Stipulations:

5 - Statement of Basis - bhill12 - Cement Volume (3) - hmacdonald15 - Directional - dmason

25 - Surface Casing - hmacdonald



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

## Permit To Drill

\*\*\*\*\*\*

Well Name: Three Rivers 36-26T-720

**API Well Number:** 43047545800000

Lease Number: ML50510 Surface Owner: STATE Approval Date: 10/2/2014

#### Issued to:

ULTRA RESOURCES INC, 304 Inverness Way South #295, Englewood, CO 80112

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 270-02. The expected producing formation or pool is the GREEN RIVER - LOWER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 500' MD and tail cement above Mahogany as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  - at http://oilgas.ogm.utah.gov
  - 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
  - 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

#### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved by:

For John Rogers Associate Director, Oil & Gas



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

December 3, 2015

JOHN R. BAZA
Division Director

Ultra Resources, Inc. 304 Inverness Way South # 295 Englewood, CO 80112

Re:

APD Rescinded - Three Rivers 36-26T-720, Sec. 36, T. 7S, R. 20E

Uintah County, Utah API No. 43-047-54580

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on October 2, 2014. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective December 3, 2015.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

**Environmental Scientist** 

cc:

Well File

SITLA, Ed Bonner

